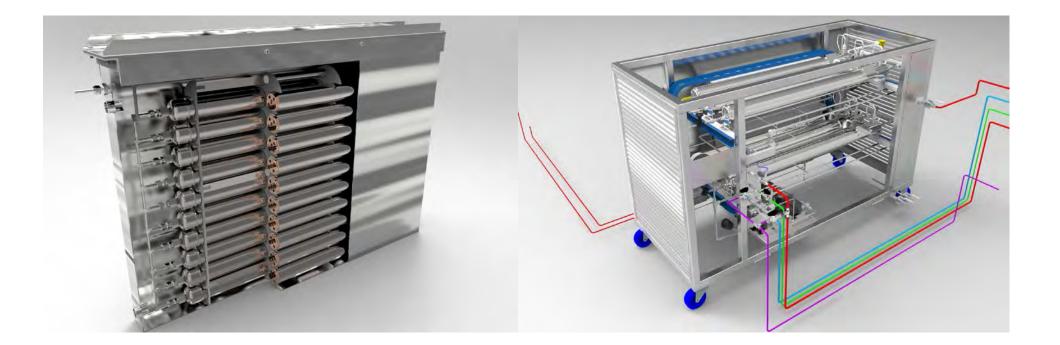
TF DESIGN ENGINEERING





PRESENTED BY: GERHARD LOUW

Thermodynamics Fluids & Design Tel: +27 21 887 9288 | Fax: +27 21 887 9899 | Mail: info@tfdesign.co.za

TF DESIGN – Your Engineering Partner



- Founded in 1993 and is based in Stellenbosch, South Africa
- Employee complement: 160 people [TF Design & TF Design Manufacturing]
- TF Design specialises in the fields of Heat Transfer & Thermodynamics, but, are also strongly involved in turnkey Mechanical / Electrical projects.
- TF Design is able to design from first principals and can therefore offer unique solutions.

TF DESIGN – YOUR ENGINEERING PARTNER



TF DESIGN ENGINEERING

TF DESIGN, STELLENBOSCH

MECHANICAL PERSONNEL

30 x Mechanical Engineers

20 x Technical personnel

30 x Skilled and Semi skilled artisans, welders, fitters etc.

ELECTRICAL PERSONNEL

12 x Electrical Engineers

5 x Technical personnel

10 x Skilled Labourers

9 x Internships

TF DESIGN MANUFACTURING, SOMERSET WEST

4 x Mechanical Engineers

40 x Skilled and Semi skilled artisans, welders, fitters etc.

2 x Laser Cutter, 1 x Plasma Cutter, CNC Benders, Rollers, Welders & fully operation workshop for heavy steel construction.

TF DESIGN – Serviced Industries



- Automotive
- Defense / Military
- Chemical

- Medical
- Power Generation
- Timber

- Mobile Containerized Systems
- Building Industry HVAC Systems
- Technology Development























\bigcirc

TF DESIGN – Partnership



UNIVERSITY of the WESTERN CAPE



- Provide novel concepts and idea's
- Putting these novel concepts and idea's into practise
- Ensure compliance with statutory requirements
- Systems Integrator for high performance systems

TF DESIGN – MH High Pressure Vessels



- Design according to ASME Boiler & Pressure vessel standards
- NDT (Non-destructive Test)
- X-ray Test
- Dye Pen Test
- Hydrostatic Pressure Tests

TF DESIGN – Earlier Design Vessels (11-161)



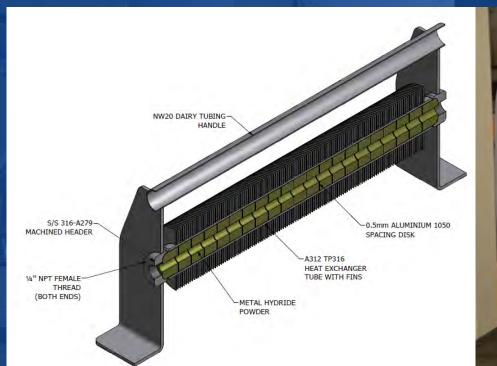


TF DESIGN – Earlier Design Vessels (12-133)

• V = 165,763 ml



- MH Graphite Mixture
- Round Aluminium spacers inserts
- Portable Fuel Cell Charger

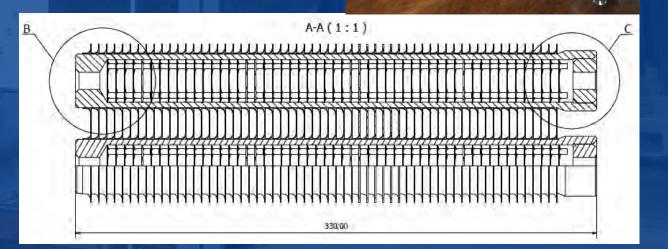




TF DESIGN – Earlier Design Vessels (12-184)



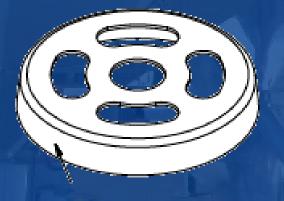
- 4 Pack Configuration
- Internal and external Aluminium Fins (0.5mm thick at 5mm spacing)
- Dimensions: 330 x 100 x 100 mm



TF DESIGN – Earlier Design Vessels (13-159)

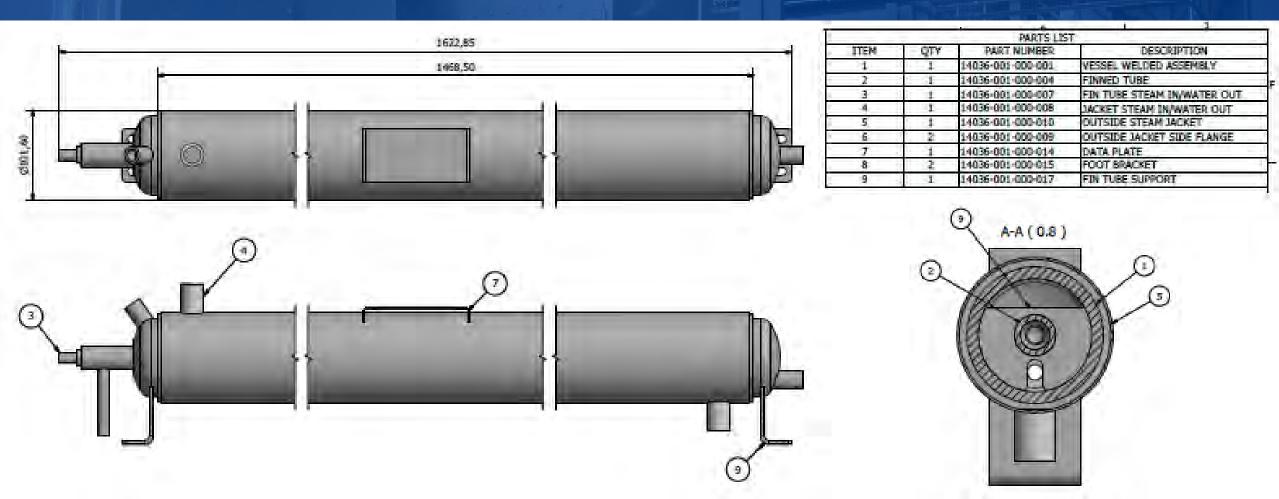


- 6 Pack Configuration
- Internal Copper spacers
- External Aluminium Fins
- Dimensions: 330 x 154 x 100 mm

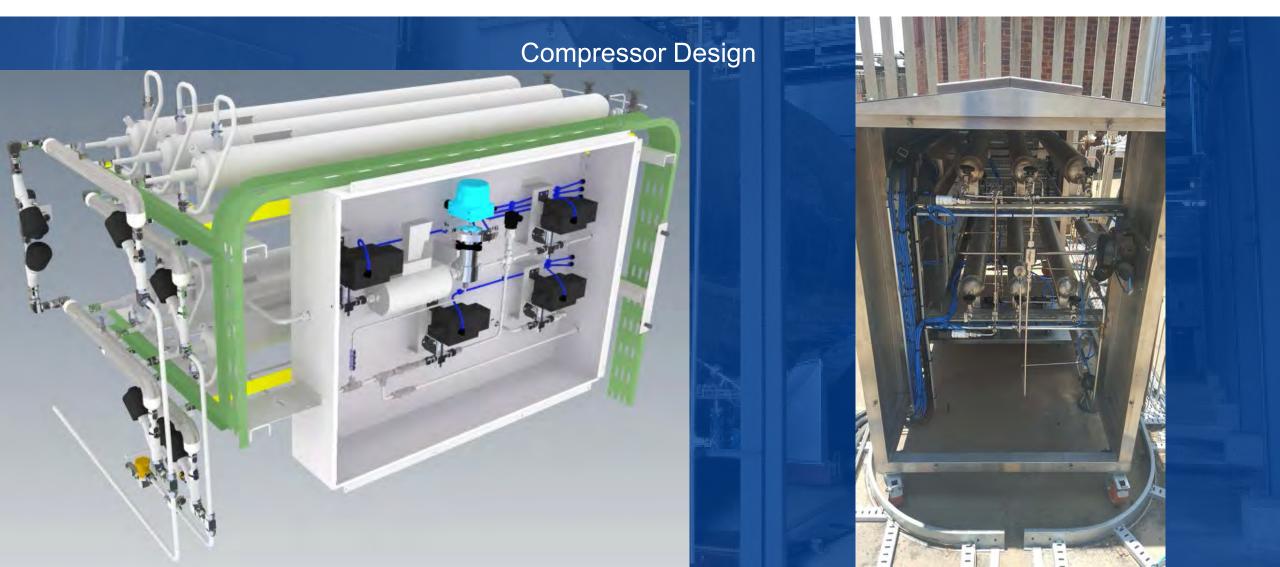




Compressor Vessel Design



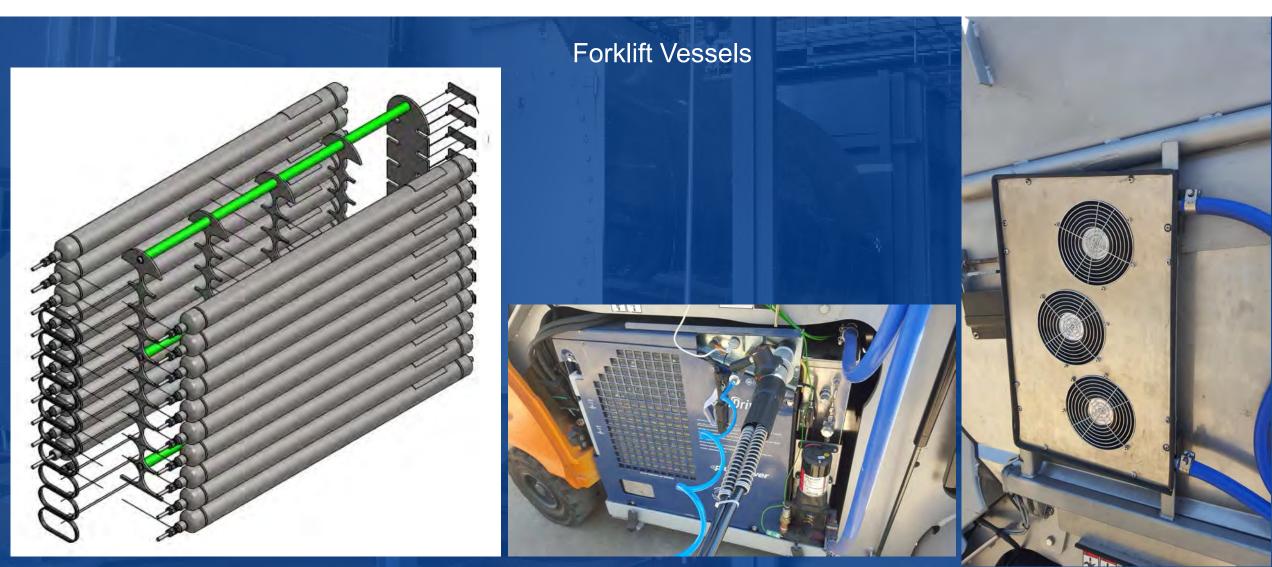




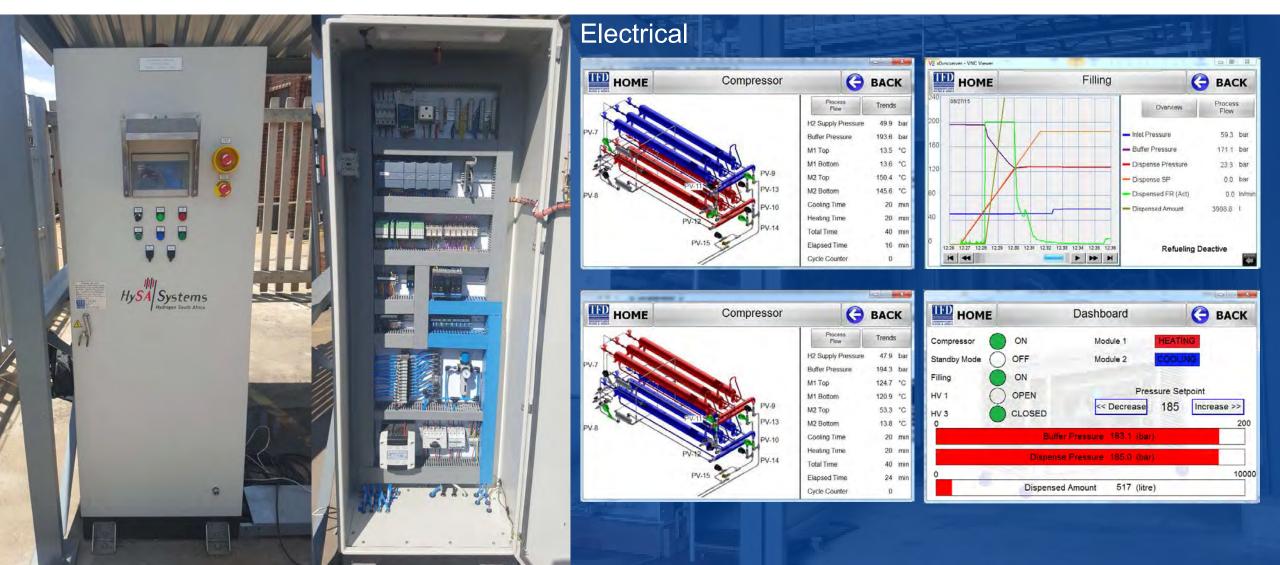




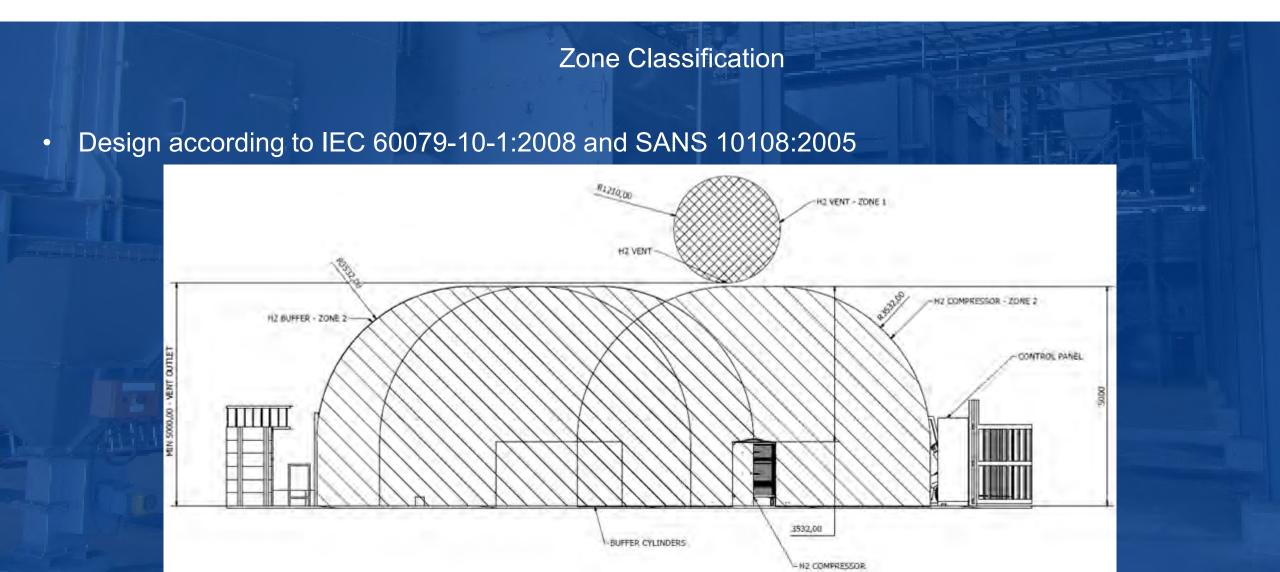












TF DESIGN – Fibre Wound Vessel

 \mathcal{D}





TF DESIGN – Your Engineering Partner



